



STRUCTURE · OF · THE  
BEE

SHOWN · IN · MODEL

THE · GRESHAM · PUBLISHING · COMPANY

# EXPLANATION OF BEE-MODELS

## THE QUEEN BEE

### External Anatomy of the Queen Bee

- |   |                                     |
|---|-------------------------------------|
| 1. Antennæ or Feelers.                  | 8. Tibia or Shank.                  |
| 2. Scape or Basal Joint.                | 9. Femur or Thigh.                  |
| 3. Compound Eyes (19 of internal view). | 10. Apparatus for cleaning Antennæ. |
| 4. Simple Eyes or Ocelli.               | 11. Spine.                          |
| 5. Claws.                               | 12. Thorax.                         |
| 6. Tarsus.                              | 13. Abdomen.                        |
| 7. Metatarsus. } Foot.                  | 14. Fore Wings.                     |
|   | 15. Hind Wings.                     |

### Organs of Respiration

- |               |                |                           |
|---------------|----------------|---------------------------|
| 16. Stigmata. | 17. Air Sacks. | 18. Tracheæ or Air Tubes. |
|---------------|----------------|---------------------------|

### Organs of Digestion

- |                                 |  |
|---------------------------------|--|
| 19. See 3.                      | 25. Anal Orifice.                              |
| 20. Œsophagus or Gullet.        | 26. Entrance of the Stomach (Py-<br>lorus).    |
| 21. Honey Stomach.              | 27. Malpighian Vessels (Urinary Ves-<br>sels). |
| 22. Chylifying or Food Stomach. | 28. Glands of Rectum.                          |
| 23. Small Intestine.            |  |
| 24. Rectum.                     |  |

### Reproductive Organs

- |                           |                        |
|---------------------------|------------------------|
| 29. Poison Sack.          | 34. Lubricating Gland. |
| 30. Ovaries.              | 35. Seminal Bladder.   |
| 31. Paired Ovarian Tubes. | 36. Sebaceous Glands.  |
| 32. Single Oviduct.       | 37. Sheath.            |
| 33. Poison Gland.         |                        |

### Nervous System

- |                                   |   |
|-----------------------------------|---|
| 38. Superior Œsophageal Ganglion. | 42. Ganglions for Fore Wings, Middle<br>Legs, Hinder Wings, Hinder<br>Legs. |
| 39. Nerve of Sight.               | 43-46. Ganglia.   |
| 40. Inferior Œsophageal Ganglion. |   |
| 41. Ganglion for the Fore Legs.   |   |

## THE DRONE

### External Anatomy of the Drone

- |   |                                     |
|---|-------------------------------------|
| 1. Antennæ.                             | 8. Tibia or Shank.                  |
| 2. Scape or Basal Joint.                | 9. Femur or Thigh.                  |
| 3. Compound Eyes (19 of internal view). | 10. Apparatus for cleaning Antennæ. |
| 4. Simple Eyes or Ocelli.               | 11. Spine.                          |
| 5. Claws.                               | 12. Thorax.                         |
| 6. Tarsus.                              | 13. Abdomen.                        |
| 7. Metatarsus. } Foot.                  | 14. Fore Wings.                     |
|   | 15. Hind Wings.                     |

### Organs of Respiration

- |               |                |                           |
|---------------|----------------|---------------------------|
| 16. Stigmata. | 17. Air Sacks. | 18. Tracheæ or Air Tubes. |
|---------------|----------------|---------------------------|

### Organs of Digestion

- |                            |  |
|----------------------------|--|
| 19. See 3.                 | 25. Anus.                                      |
| 20. Œsophagus.             | 26. Entrance of Stomach.                       |
| 21. Honey Stomach.         | 27. Malpighian Vessels (Urinary Ves-<br>sels). |
| 22. Chyle or Food Stomach. | 28. Glands of Rectum.                          |
| 23. Small Intestine.       |  |
| 24. Rectum.                |  |

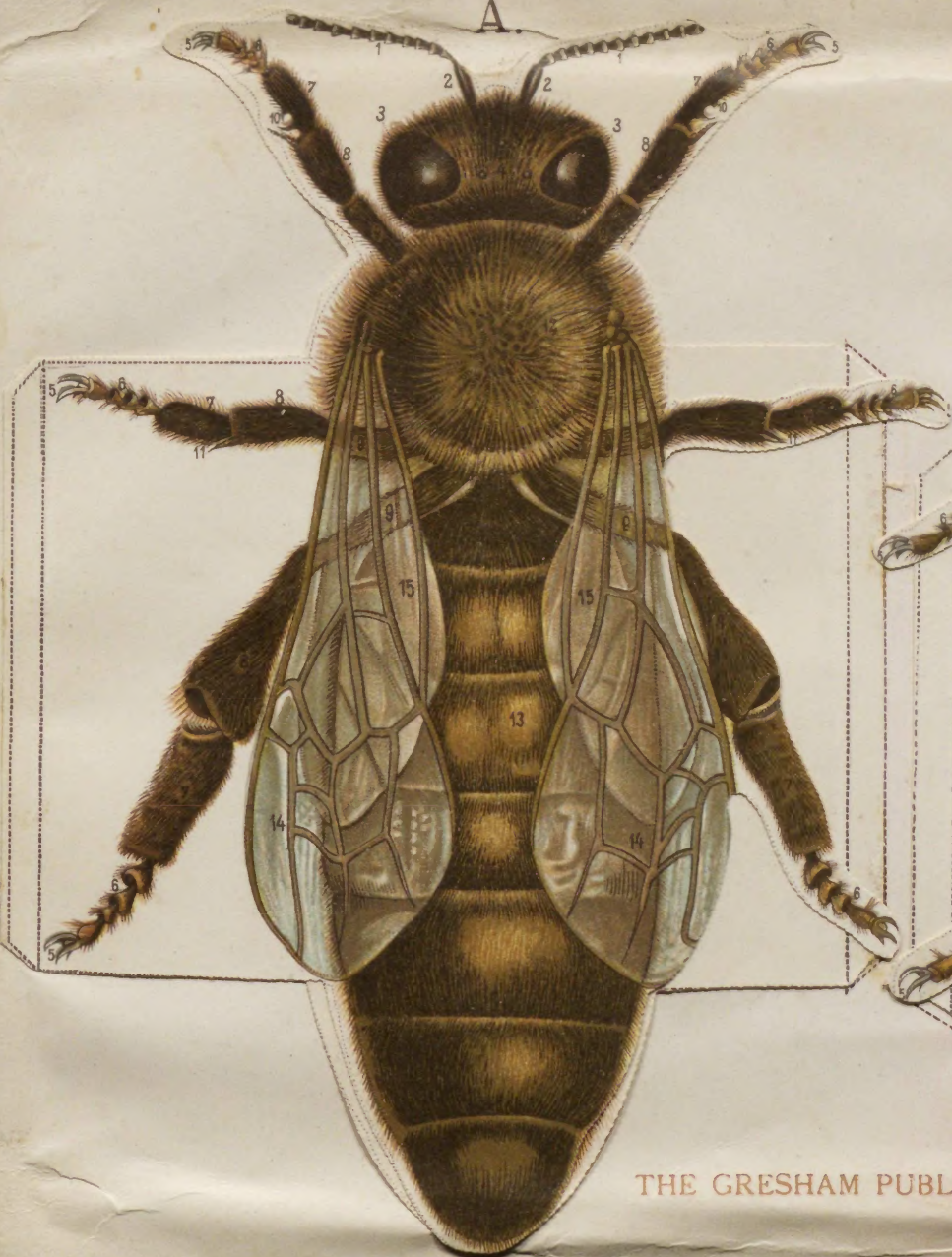
### Organs of Reproduction

- |                           |                         |
|---------------------------|-------------------------|
| 29. Testes.               | 34. Bulb.               |
| 30. Paired Seminal Ducts. | 35. Horny Process.      |
| 31. Seminal Bladder.      | 36. Saccular Appendage. |
| 32. Appendicular Glands.  | 37. Anus.               |
| 33. Single Seminal Duct.  |                         |

### Nervous System

- |                                   |   |
|-----------------------------------|---|
| 38. Superior Œsophageal Ganglion. | 42. Ganglions for Fore Wings, Middle<br>Legs, Hinder Wings, Hinder<br>Legs. |
| 39. Nerve of Sight.               | 43-46. Ganglia.   |
| 40. Inferior Œsophageal Ganglion. |   |
| 41. Ganglion for Fore Legs.       |   |





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